



PROGRAMME : BACHELORS ENVIRONMENTAL HEALTH
SUBJECT : SUSTAINABLE DEVELOPMENT AND ECOLOGY 1
CODE : SDEEH01
DATE : 5 JUNE 2017 (FINAL EXAM)
DURATION : 3 HRS
WEIGHT : 50: 50
TOTAL MARKS : 120

EXAMINER : MS R. VAN WYK
MODERATOR : MR T MBONANE
NUMBER OF PAGES : 3 PAGES

NOTES:

1. ALL THE QUESTIONS MUST BE ANSWERED.
 2. ANSWERS THAT ARE NOT TECHNICALLY CORRECT AND LOGICALLY STRUCTURED SHOULD BE PENALISED.
 3. ANSWERS TO QUESTIONS MUST NOT BE SPLIT. IF SO ONLY THE FIRST PART OF THE ANSWER WILL BE MARKED.
 4. STUDENTS MAY START ANSWERING ANY QUESTION FIRST.
 5. ANSWERS THAT ARE LOGICALLY CORRECT CAN BE ACCEPTED SINCE SDEEH01 IS A PRACTICAL SUBJECT.
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Question 1: Sustainable development concepts (50 Marks)

- 1.1 'Sustainable development' is the keyword of the United Nations' post-2015 vision for the world. So what is sustainable development, and why is it important?
(10 x 1 = 10 marks)
- 1.2 Discuss five (5) global threats to sustainable development that South Africa may have been experiencing in the last year.
(5 x 2 = 10 marks)
- 1.3 Sustainable Development Goals (SDGs) are a follow-up effort to Millennium Development Goals (MDGs), in effect from 2000 to 2015. How did SDGs evolve and how are they unique?
(5 x 1 = 5 marks)
- 1.4 What is the significance of Sustainable Development Goals (SDGs)?
(5 x 1 = 5 marks)
- 1.5 The United Nations (UN) announced seventeen Sustainable Development Goals (SDGs) to "end poverty, protect the planet, and ensure prosperity for all".

Discuss the four (4) most critical environmental and public health related SDGs, vital to the sustainable development of the Southern African Region. Support your answers with relevant examples where applicable.



(4 x 5 = 20 marks)

Question 2: Sustainable Ecology (20 Marks)

- 2.1 What is ecology?
(5x1=5 marks)
- 2.2 Based on the Scope of Practice for Environmental Health Practitioners (EHPs), what is the importance of studying ecology?
(5x1= 5 marks)
- 2.3 Does Environmental health practitioners have a role in preventing and controlling impacts of environmental stress? Agree or Disagree and **motivate** your answer.
(10x1=10 marks)

Question 3: Climate Change and Global Warming (20 Marks)

- 3.1 Describe the effects of climate change and global warming on health. Support your answers with relevant examples where applicable.
(10 x 1 = 10 marks)
- 3.2 Describe the effects of climate change and global warming on the environment. Support your answers with relevant examples where applicable.
(10 x 1 = 10 marks)

Question 4: Sustainable Energy & Diversification (30 Marks)

- 4.1 Answer the following questions as detailed as possible.
- 4.1.1 Which government department is responsible for the regulation of Energy in South Africa?
(3 x 1 = 3 marks)
- 4.1.2 Who is the former or current Minister of Energy?
(2 x 1 = 2 marks)
- 4.1.3 What does it mean to be “Off the Grid” and discuss the Benefits of Off-Grid Energy?
(5 x 1 = 5 marks)
- 4.1.4 What is Free Basic Electricity (FBE) and how many units does households get free?
(5 x 1 = 5 marks)
- 4.2 Discuss the types of renewable energy sources that can be used in the rural communities of Southern Africa and elaborate how it can lead to sustainable development? Support your answers with relevant examples where applicable.
(15 x 1 = 15 marks)

Total Marks =120